

```
<110> Koizumi, Makoto
<120> Oligonucleotides having a 2'-0,4'-C-ethylene nucleotide in the third position of the 3-end
<130> 06189/HG
<140> US 10/577982
<141> 2006-05-02
<150> JP 2003-378039
<151> 2003-11-07
<150> JP 2004-121080
<151> 2004-04-16
<160> 32
<170> Patentln version 3.4
<210> 1
<211> 20
<212> DNA
<213> Homo sapiens
<400> 1
cactgggagc attgaggctc
                                                                                                         20
<210> 2
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> allele
<222> (20)..(20)
<223> C is transitioned to T
<400> 2
cactgggagc attgaggctt
                                                                                                         20
<210> 3
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> allele
<222> (28)..(28)
<223> C is transitioned to T
atctgtctac atatatac acacacat
                                                                                                         28
<210> 4
<211> 28
<212> DNA
<213> Mus musculus
atctgtctac atatatatac acacacac
                                                                                                         28
<210> 5
<211> 18
<212> DNA
<213> Homo sapiens
<400> 5
```

	2	
gggtgaaggc tgtgaccg		18
<210> 6 <211> 25 <212> DNA <213> Mus musculus		
<400> 6 gtcactagac tactgcttac tgtcc		25
<210> 7 <211> 25 <212> DNA <213> Artificial Sequence		
<220> <223> primer E		
<400> 7 catgtctact gctacttcac atgtg		25
<210> 8 <211> 25 <212> DNA <213> Artificial Sequence		
<220> <223> primer F		
<400> 8 catgtctact gctacttcac atgta		25
<210> 9 <211> 25 <212> DNA <213> Artificial Sequence		
<220> <223> primer G		
<400> 9 catgtctact gctacttcac atggg		25
<210> 10 <211> 25 <212> DNA <213> Artificial Sequence		
<220> <223> primer H		
<400> 10 catgtctact gctacttcac atgga		25
<210> 11 <211> 20 <212> DNA <213> Homo sapiens		
<220> <221> modified base <222> (18) (18) <223> 2'-0,4'-C-ethylene nucleotide		
<400> 11 cactgggagc attgaggctc		20

```
<210> 12
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> modified_base
<222> (18)..(18)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 12 cactgggagc attgaggctt
                                                                                                                                    20
<210> 13
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> modified_base
<222> (26)..(26)
<223> 2'-0,4'-C-ethylene nucleotide
<220>
<221> allele
<222> (28)..(28)
<223> C is transitioned to T
<400> 13 atctgtctac atatatatac acacacat
                                                                                                                                   28
<210> 14
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> modified_base
<222> (26)..(26)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 14 atctgtctac atatatatac acacacac
                                                                                                                                    28
<210> 15
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> modified_base
<222> (20).. (20)
<223> 2'-0,4'-ethylene nucleoside
<400> 15 cactgggagc attgaggctc
                                                                                                                                   20
<210> 16
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> allele
<222> (20)..(20)
<223> C is transitioned to T
```

```
<220>
<221> modified_base
<222> (20).. (20)
<223> 2'-0,4'-C-ethylene nucleoside
 <400> 16
 cactgggagc attgaggctt
                                                                                                                                 20
<210> 17
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> modified_base
<222> (19).. (19)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 17 cactgggagc attgaggctc
                                                                                                                                 20
<210> 18
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> modified_base
<222> (19)..(19)
<223> 2'-0,4'-C-ethylene nucleotide
<220>
<221> allele
<222> (20)..(20)
<223> C is transitioned to T
 <400> 18
cactgggagc attgaggctt
                                                                                                                                 20
<210> 19
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> modified_base
<222> (17)..(17)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 19
cactgggagc attgaggctc
                                                                                                                                 20
<210> 20
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> modified_base
<222> (17)..(17)
<223> 2'-0,4'-C-ethylene nucleotide
<220>
<221> allele
<222> (20)..(20)
<223> C is transitioned to T
```

<400> 20 cactgggagc attgaggctt	20
<210> 21 <211> 20 <212> DNA <213> Homo sapiens	
<220> <221> modified_base <222> (18)(18) <223> 2'-0,4'-C-methylene nucleotide	
<400> 21 cactgggagc attgaggctc	20
<210> 22 <211> 20 <212> DNA <213> Homo sapiens	
<220> <221> modified_base <222> (18)(18) <223> 2'-0,4'-C-methylene nucleotide	
<220> <221> allele <222> (20)(20) <223> C is transitioned to T	
<400> 22 cactgggagc attgaggctt	20
<210> 23 <211> 28 <212> DNA <213> Mus musculus	
<220> <221> allele <222> (28)(28) <223> C is transitioned to T	
<220> <221> modified_base <222> (28)(28) <223> 2'-0,4'-C-ethylene nucleoside	
<400> 23 atctgtctac atatatac acacacat	28
<210> 24 <211> 28 <212> DNA <213> Mus musculus	
<220> <221> modified_base <222> (28)(28) <223> 2'-0,4'-C-ethylene nucleoside	
<400> 24 atctgtctac atatatatac acacacac	28

```
<210> 25
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> modified_base
<222> (27)..(27)
<223> 2'-0,4'-C-ethylene nucleotide
<220>
<221> allele
<222> (28)..(28)
<223> C is transitioned to T
 <400> 25
atctgtctac atatatatac acacacat
                                                                                                                            28
<210> 26
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> modified_base
<222> (27)..(27)
<223> 2'-0,4'-c-ethylene nucleotide
<400> 26 atctgtctac atatatatac acacacac
                                                                                                                            28
<210> 27
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> modified_base
<222> (25)..(25)
<223> 2'-0,4'-C-ethylene nucleotide
<220>
<221> allele
<222> (28)..(28)
<223> C is transitioned to T
atctgtctac atatatatac acacacat
                                                                                                                            28
<210> 28
<211> 28
<212> DNA
<213> Mus musculus
<220>
<221> modified_base
<222> (25)..(25)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 28 atctgtctac atatatatac acacacac
                                                                                                                            28
<210> 29 ·
<211> 25
<212> DNA
<213> Artificial Sequence
```

```
<220>
<223> Primer A
<220>
<221> modified_base
<222> (23)..(23)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 29 catgtctact gctacttcac atgtg
                                                                                                                    25
<210> 30
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Primer B
<220>
<221> modified_base
<222> (23)..(23)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 30 catgtctact gctacttcac atgta
                                                                                                                    25
<210' 31
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Primer C
<220>
<221> modified_base
<222> (23)..(23)
<223> 2'-0,4'-C-ethylene nucleotide
<400> 31 catgtctact gctacttcac atgtg
                                                                                                                    25
<210> 32
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Primer D
<220>
<221> modified_base
<222> (23)..(23)
<223> 2'-0,4'-C-ethylene-nucleotide
<400> 32 catgtctact gctacttcac atgga
                                                                                                                    25
```